

# CURRICULUM VITAE

## PERSONAL INFORMATION

Full name PHAN Thi Thu Hong  
Place of birth Hanam, Vietnam  
Nationality Vietnamese  
Email [ptthong@vnua.edu.vn](mailto:ptthong@vnua.edu.vn)



## EDUCATION

|           |      |                                                                                                                         |
|-----------|------|-------------------------------------------------------------------------------------------------------------------------|
| 2015-2018 | PhD  | University of Littoral, <b>Signal processing</b>                                                                        |
| 2008-2010 | M.S. | University of Claude Bernard Lyon 1, Faculty of Computer Science, <b>Information technology and Web</b>                 |
| 2000-2004 | B.S. | Hanoi University of Science, Faculty of mathematics mechanics informatics, <b>Computational and Applied Mathematics</b> |
| 1997-2000 | HSD  | BienHoa specialized school                                                                                              |

## EMPLOYMENT

**10/2004 - present Vietnam National University of Agriculture, Faculty of Information technology, Department of Computer Science**

- |                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| 10/2005- present | <ul style="list-style-type: none"><li>• Lecturer and Researcher</li></ul>           |
| 10/2004-10/2005  | <ul style="list-style-type: none"><li>• Lecturer and Researcher Assistant</li></ul> |

## RESEARCH EXPERIENCE

**10/2005 - present Researcher, Vietnam National University of Agriculture**

- |           |                                                                                                                                                                                                                                         |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2015      | <ul style="list-style-type: none"><li>• Principle investigator of Vietnam National University of Agriculture project named, “<i>Research on gene expression classification using random forest method</i>”</li></ul>                    |
| 2014-2015 | <ul style="list-style-type: none"><li>• Member of ARES – CCD (Vietnam-Belgium) project named, “<i>Rice seed assessment using advanced image processing techniques and machine vision tools</i>”</li></ul>                               |
| 2014      | <ul style="list-style-type: none"><li>• Member of Vietnam National University of Agriculture project named, “<i>Application of machine learning techniques in analyzing SNP data</i>”</li></ul>                                         |
| 2014      | <ul style="list-style-type: none"><li>• Member of Vietnam National University of Agriculture project named, “<i>Research on mobile web design and development techniques, apply to the website of Faculty of Information</i>”</li></ul> |

- Technology – VNUA*
- 2012-2013 • Principle investigator of Vietnam National University of Agriculture project named, “*E-learning system: Using learner profiles to personalize proposed resources to learners – Step 1*”
  - 2005-2006 • Member of the ministry-level project named, “*Building an online test system using Php & mySQL*”
  - 2004-2005 • Member of Vietnam National University of Agriculture project named, “*Building a software to support decision-making*”
  - 2008-2010 M.S. program in Computer Science, University of Claude Bernard Lyon 1**
    - 2010 • Internship of M.S. in COSMI - FEMTO ST Institute and LIRIS – Lyon University, “*Proposition of a semantic distributed and cooperative architecture of maintenance*”
    - 2009 • Internship of Master 1 in SILEX – LIRIS – Lyon University, “*Integration of profiles from spreadsheets - Project PERLEA, module TORNADE*”

## TEACHING EXPERIENCE

- 10/2004 - present Lecturer, Vietnam National University of Agriculture**
- 10/2005- present • Taught courses: Introduction to informatics, Digital image processing, Compilers, Network administration, Computer networks
- 10/2004-10/2005 • Taught course: Introduction to informatics

## PUBLICATION

- Thi-Thu-Hong **Phan**, Emilie Poisson Caillault, André Bigand, "Comparative Study on Univariate Forecasting Methods for Meteorological Time Series", *26th European Signal Processing Conference. Eusipco 2018*. September 3-7, 2018, Rome, Italy.
- Thi-Thu-Hong **Phan**, André Bigand, Emilie Poisson Caillault, "A New Fuzzy Logicbased Similarity Measure applied to Large Gap Imputation for Uncorrelated Multivariate Time Series", *Applied Computational Intelligence and Soft Computing*. Available online August 2018. DOI: 10.1155/2018/9095683
- Thi-Thu-Hong **Phan**, Emilie Poisson Caillault, Alain Lefebvre, André Bigand, "Dynamic Time Warping-based imputation for univariate time series data", *Pattern Recognition Letters*. Available online 16 August 2017. In Press, Accepted Manuscript. DOI: 10.1016/j.patrec.2017.08.019
- Thi-Thu-Hong **Phan**, Emilie Poisson Caillault, André Bigand, "Comparative Study on Univariate Forecasting Methods for Meteorological Time Series", *26th European Signal Processing Conference. Eusipco 2018*. September 3-7, 2018, Rome, Italy
- Thi-Thu-Hong **Phan**, Emilie Poisson Caillault, Alain Lefebvre, André Bigand, "DTW Approach For Uncorrelated Multivariate Time Series Imputation", *IEEE International Workshop on Machine Learning for Signal Processing. MLSP 2017*. September 25-28, 2017 Roppongi, Tokyo, Japan. DOI:

10.1109/MLSP.2017.8168165

- Thi-Thu-Hong **Phan**, Emilie Poisson Caillault, Alain Lefebvre, André Bigand, "Which DTW Method Applied to Marine Univariate Time Series Imputation", *OCEANS 2017 MTS/IEEE*, Aberdeen, Scotland, 06/2017. DOI: 10.1109/OCEANSE.2017.8084598
- Thi-Thu-Hong **Phan**, Emilie Poisson Caillault, André Bigand, "Comparative Study on Supervised Learning Methods for Identifying Phytoplankton Species", *IEEE Sixth International Conference on Communications and Electronics (IEEE ICCE 2016)*. July 27 - 29, 2016. Ha Long, Vietnam. DOI:10.1109/CCE.2016.7562650
- **Phan** T.T.H, Nguyen. T.T, "Evaluation of feature selection methods for gene expression data classification", *Vietnam National University of Agriculture's Journal of Science and Development*, vol. 14, no. 3, 2016
- **Phan**. T.T.H , Tran T.T.H , Le T.L., Vo T.H., Vu H., and Nguyen T. T., "Comparative study on vision based rice seed varieties identification", *the 1st International Workshop on Pattern Recognition for Multimedia Content Analysis (PR4MCA 2015)*, HoChiMinh, Vietnam 2015
- **Phan**. T.T.H , Tran T.T.H , Le T.L., Vo T.H. and Nguyen T. T., "Identification of seeds of different rice varieties using image processing and computer vision techniques", *Vietnam National University of Agriculture's Journal of Science and Development*, Vol. 13, No. 6: 1036-1042, 2015
- Vu. T.L., Tran T.T.H, **Phan**. T.T.H, Nguyen. T.T, Nguyen. T.T., "Developing Database and Online Searching Sytem of Popular Rice Varieties in Viet Nam", *Vietnam National University of Agriculture's Journal of Science and Development*, Vol. 13, No. 5: 813-824, 2015
- Pham. Q.D., **Phan**. T.T.H, Tran. T.T.H, Vu T.L., "Responsive Design and Its Application to Designing Website of the Faculty of Information Technology", *Vietnam National University of Agriculture's Journal of Science and Development*, Vol. 13, No. 4: 645-656, 2015
- Nguyen. V.H, **Phan**. T.T.H, Nguyen. T.T, Nguyen. T.T, "A new feature sampling method in learning random forest for SNP data analysis", *Vietnam National University of Agriculture's Journal of Science and Development*, Vol. 13, No. 2: 301-307, 2015
- **Phan**.T.T.H, Nguyen. V.H, "A Learner Profile Model – A Whole Approach", *Hanoi University of Agriculture's Journal of Science and Development*, Vol. 11, NO. 8: 1045-1052, 2013.
- Nguyen . T.T, Vu. T.L, **Phan**. T.T.H, "Building an automatic license plate recognition system", *Official women conference 2012*, 2012.

## PACKAGE

DWTBI R-package: <https://cran.r-project.org/web/packages/DTWBI/index.html>

DTWUMI R-package: <https://cran.r-project.org/web/packages/DTWUMI/index.html>

FSMUMI R-package: <https://cran.r-project.org/web/packages/FSMUMI/index.html>

## HONORS

2008-2010 Scholarship of Vietnamese Ministry of Education and Training for Master

2015-2019 Scholarship of Vietnamese Ministry of Education and Training for PhD

## **COMPUTER AND PROGRAMMING EXPERIENCE**

|          |                                         |
|----------|-----------------------------------------|
| Language | R, PHP, C /C++, Java, Delphi, Prolog    |
| Database | MS MySQL, SQL Server, Access, Oracle 10 |
| System   | MS Windows, Linux                       |

## **LANGUE**

|            |               |
|------------|---------------|
| Vietnamese | Mother tongue |
| French     | B2 - level    |
| English    | B2 - level    |